



500.43116X00

Applicant(s): K. SUZUKI, et al

Serial No.: 10/659,398

Filed: September 11, 2003

For: DISK ARRAY APPARATUS AND METHOD FOR CONTROLLING
THE SAME

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

June 13, 2005

Sir:

In the matter of the above-identified application, applicants are submitting herewith copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. Applicants hereby inform the Examiner that only copies of the foreign applications, publications and articles are being submitted herewith. No copies of the U.S. documents are being submitted.

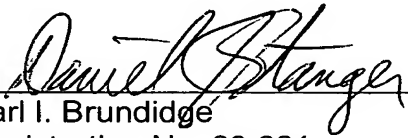
This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR §1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation of the documents.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. Deposit Account No. 50-1417 (500.43116X00) please credit any excess fees to such deposit account.

Respectfully submitted,

 32,846

Carl I. Brundidge
Registration No. 29,621
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

CIB/jdc
(703) 684-1120

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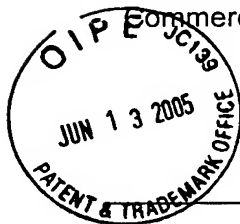
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP
	6 6 3 6 9 3 4	10/03	Linnell			
	5 9 5 1 6 9 1	09/99	Ng et al			
	6 1 1 5 7 9 7	09/00	Kanda et al			
	6 1 7 3 3 6 0	1/01	Beardsley et al			
	6 5 5 3 4 0 8	4/03	Merrell et al			
	6 6 0 6 6 9 0	8/03	Padovano			
	6 7 7 2 3 6 5	8/04	Obara			
2 0 0 4	0 1 6 2 9 4 0	8/04	Yagisawa et al			
2 0 0 3	0 2 2 1 0 6 1	11/03	El-Batal			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
0 8 4 4 5 6 1	5/98	European			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	6 1 0 8 7 4 8	08/00	Ofek et al			
	6 5 1 0 4 9 1	1/03	Franklin et al			
	6 6 5 1 1 3 7	11/03	Baek et al			
	6 7 0 8 2 3 2	03/04	Obara et al			
	5 5 4 6 5 5 8	8/96	Jacobson et al			

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	2 0 0 4	0	1	9	3	7	6	0	9/04	Matsunami et al			
	2 0 0 4	0	1	9	9	5	1	5	10/04	Penny et al			
	2 0 0 2	0	1	3	8	7	0	5	9/02	Suzuki et al			
	2 0 0 3	0	2	2	1	0	7	7	11/03	Ohno et al			
	2 0 0 4	0	0	1	0	6	6	2	1/04	Aruga			

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	2 0 0 4	0	1	2	8	6	2	7	7/04	Zayas			
	2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire			
	2 0 0 4	0	0	1	0	6	6	0	1/04	Konshak et al			
	2 0 0 4	0	0	7	8	7	0	7	4/04	Apperley et al			
	2 0 0 4	0	0	7	3	7	4	7	4/04	Lu			
	2 0 0 4	0	1	7	7	2	1	8	9/04	Meehan et al			

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	5 6 0 3 0 0 3	2/97	Akizawa et al			
	5 8 3 8 8 9 1	11/98	Mizuno et al			
	5 8 6 7 7 3 6	2/99	Jantz			
	5 8 8 4 0 9 8	3/99	Mason, Jr.			
	6 2 1 9 7 5 2	4/01	Sekido			
	6 2 2 3 2 4 9	4/01	Kato et al			
	6 5 4 9 9 7 8	5/03	Mansur et al			
	6 6 4 0 2 7 8	10/03	Nolan et al			
	6 6 8 4 2 9 5	1/04	Fujimoto et al			
	6 7 4 5 2 8 7	6/04	Fujimoto et al			
	6 2 0 1 6 9 2	3/01	Gamble et al			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
2 0 0 2 3 3 3 9 5 4	11/02	Japan			
2 0 0 4 1 7 8 5 5 7	6/04	Japan			

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	6 6 2 8 5 1 3	9/03	Gallagher et al			
	6 8 3 1 8 3 9	12/04	Bovell			
	6 0 6 1 7 5 0	5/00	Beardsley et al			
	6 7 6 3 4 3 6	7/04	Gabber et al			
	6 7 9 2 4 8 6	9/04	Hanan et al			
	6 1 3 7 6 7 9	10/00	Chang			
	6 3 5 1 3 7 5	2/02	Hsieh et al			
	6 4 8 4 2 3 6	11/02	Fujimoto et al			
	6 4 8 4 2 6 9	11/02	Kopylovitz			
	6 7 2 8 9 2 2	4/04	Sundaram et al			
	5 4 7 5 8 1 4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES
0 2 1 8 8 3 5		Japan			

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	IBM Technical Disclosure Bulletin vol. 38, No. 7, July 1995 (New York), "Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem", pp. 455-458.
	Laboratory Automation and Information Management 32, 1996, (Elsevier Science B.V.), R E Dessey, "Computer Connections", pp. 53-62.

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	6 5 0 2 1 0 8	12/02	Day, III, et al			
	6 6 5 8 5 9 2	12/03	Cohen et al			
2 0 0 2	0 0 0 7 4 6 9	1/02	Taketa et al			
2 0 0 2	0 0 4 0 4 1 3	4/02	Okada et al			
	6 1 5 4 8 5 0	11/00	Idleman et al			
	6 4 0 0 7 3 0	6/02	Latif, et al			

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2 0 0 1 1 4 2 6 5 0	5/01	Japan			

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	2 0 0 3	0	0	9	7	5	0	4	5/03	Oeda et al			
	2 0 0 3	0	1	1	5	4	3	7	6/03	Tomita			
	2 0 0 3	0	1	4	5	1	6	7	7/03	Tomita			
	2 0 0 3	0	1	9	6	0	0	2	10/03	Nakayama et al			
	2 0 0 3	0	1	9	6	1	4	7	10/03	Hirata et al			
	2 0 0 3	0	2	0	4	6	7	1	10/03	Matsunami et al			

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2 0 0 4	0 0 2 4 9 3 0	2/04	Nakayama et al			
2 0 0 4	0 0 6 8 6 1 0	4/04	Umberger et al			
2 0 0 4	0 1 0 7 3 2 5	6/04	Mori			

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2 0 0 1	0 0 4 6 1 1 8	11/01	Yamanashi et al			
2 0 0 1	0 0 5 4 1 3 6	12/01	Ninomiya et al			
2 0 0 1	0 0 5 6 5 2 7	12/01	Ninomiya et al			
2 0 0 2	0 1 6 2 0 5 7	10/02	Talagala			
2 0 0 3	0 0 4 1 2 0 1	2/03	Rauscher			
2 0 0 3	0 1 7 2 1 5 0	9/03	Kennedy			
2 0 0 4	0 1 1 7 5 3 4	6/04	Parry et al			

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2 0 0 3	0 2 2 1 0 6 1	11/03	El-Batal et al			
2 0 0 3	0 0 4 1 2 7 8	2/03	Lin			
2 0 0 4	0 1 1 1 5 6 0	6/04	Takase et al			
2 0 0 4	0 2 6 7 5 1 6	12/04	Jibbe et al			
2 0 0 5	0 0 2 7 9 0 0	2/05	Petty			

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	2 0 0 3	0	2	3	1	4	2	0	12/03	Kano et al			
	2 0 0 4	0	0	8	8	4	8	2	5/04	Tanzer et al			
	2 0 0 4	0	1	6	9	9	9	6	9/04	Paul et al			
	2 0 0 1	0	0	1	9	5	0	9	9/01	Aho et al			
	2 0 0 3	0	0	4	6	4	6	0	3/03	Inoue et al			
	2 0 0 4	0	1	3	9	2	6	0	7/04	Steinmetz			
	2 0 0 4	0	1	4	8	3	2	9	7/04	Ogasawara et al			

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	2 0 0 3	0	1	3	1	2	9	1	7/03	Morrison et al			
	2 0 0 3	0	1	6	7	4	3	9	9/03	Talagala et al			
	2 0 0 3	0	0	9	7	4	8	7	5/03	Rietze et al			
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	2 0 0 4	0	2	6	8	0	3	7	12/04	Buchanan, Jr. et al			
	2 0 0 4	0	2	6	8	0	6	9	12/04	Satoyama et al			
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	6 7 7 2 2 8 7	8/04	Uchiyama et al			
	6 6 8 4 2 8 2	1/04	Kocis			
2 0 0 3	0 1 8 2 5 0 2	9/03	Kleiman et al			
2 0 0 2	0 0 1 9 8 9 7	2/02	Cruyningen			
2 0 0 4	0 2 4 3 3 8 6	12/04	Stolowitz et al			

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2 0 0 4	0 1 4 8 4 6 0	7/04	Steinmetz			
2 0 0 4	0 1 4 8 4 6 1	7/04	Steinmetz			
2 0 0 4	0 2 3 6 9 0 8	11/04	Suzuki et al			
2 0 0 3	0 1 1 0 3 3 0	6/03	Fujie et al			
	5 8 4 5 3 1 9	12/98	Yorimitsu			
2 0 0 3	0 1 4 9 8 4 0	8/03	Bolt, et al			

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2 0 0 2	0 1 4 7 9 4 5	10/02	Fox et al			
2 0 0 4	0 1 5 3 6 1 4	5/04	Bitner et al			
2 0 0 3	0 1 6 3 6 3 9	8/03	Baum			
	5 8 3 2 2 0 4	11/98	Apperley et al			
	6 2 4 0 4 8 6	5/01	Ofek et al			

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